Sears

owner's manual

SEARS
8" PORTABLE
BLACK & WHITE TELEVISION

PORTABLE BLACK & WHITE TELEVISION

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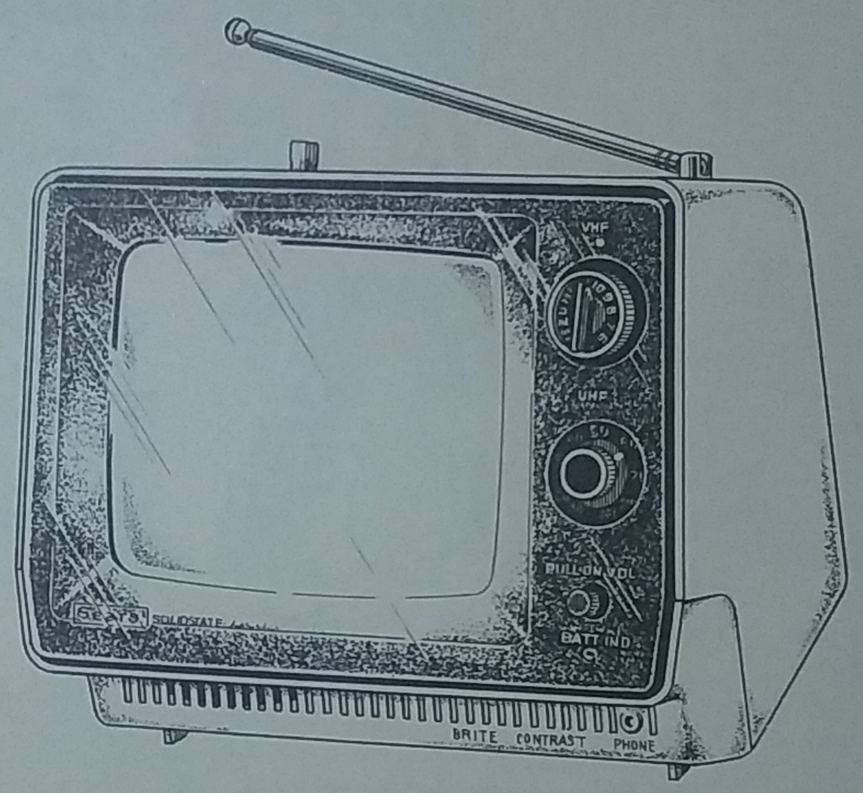


MODEL 562.50210300 SERIES

KNOW YOUR UNIT

Read this booklet so you will be able to enjoy all the features in your television receiver.

SEARS, ROEBUCK AND CO., U. S. A.

INSTALLATION AND ANTENNAS

INSTALLATION

- LOCATE the television receiver so that harsh direct lighting does not glare on the screen. Use a soft indirect lighting. Reflections can cause eye-strain.
- ALLOW adequate space between the receiver back and the wall to permit proper ventilation.
- AVOID excessively warm locations to prevent damage or premature failure.
- CONNECT receiver to outlet supplying 120-volt, 60-hertz, alternating current (AC).

ANTENNAS

The best possible picture on this television receiver depends to a great degree upon an antenna that delivers the best signal to your TV.

In most metropolitan TV signal areas, the VHF telescoping antenna built in your portable TV set and the UHF loop antenna supplied with the TV set are adequate, but a properly installed outside TV antenna assures you of the best possible picture in your reception area.

To receive channels 2 through 13 (VHF reception), extend the VHF telescoping antenna and adjust to obtain proper sound and picture quality. To receive channels 14 through 83 (UHF reception), connect the UHF loop antenna which comes with your receiver, to the terminals on the cabinet back marked "UHF". Adjust loop antenna for best sound and picture.

Regarding outdoor antenna, your local Sears store can inform you of the best outdoor antenna for your area. If you intend to use a previously installed outdoor antenna, Sears strongly urges that you either inspect your antenna or have it inspected for the weathering effects of wind, snow, ice and corrosion that greatly reduces the efficiency of the antenna and lead-in cable.

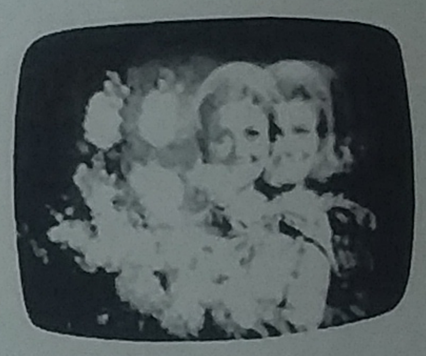
When an outdoor antenna is used, disconnect the indoor antenna before connecting the outdoor antenna. (See the illustration below)

• "SNOW" OR WEAK PICTURE

This condition is a result of a weak signal. Reposition antenna or install an adequate outdoor antenna.

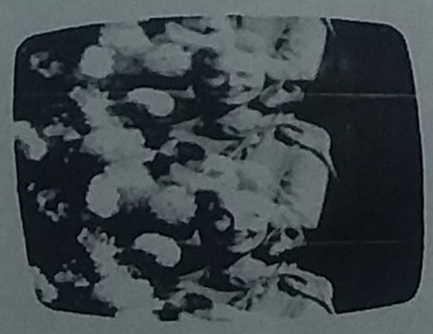
• INTERFERENCE

These conditions are usually only temporary. If conditions persist, contact Sears service. See HELPFUL HINTS on page 3.



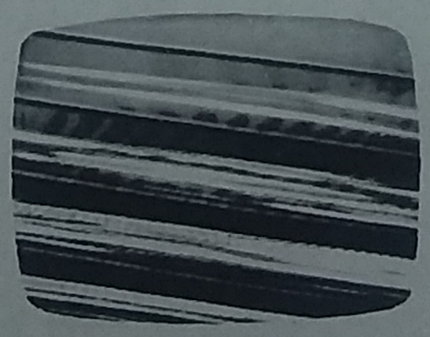
• GHOSTS

Multiple images are caused by reflected signals. This condition can be improved by repositioning the antenna.



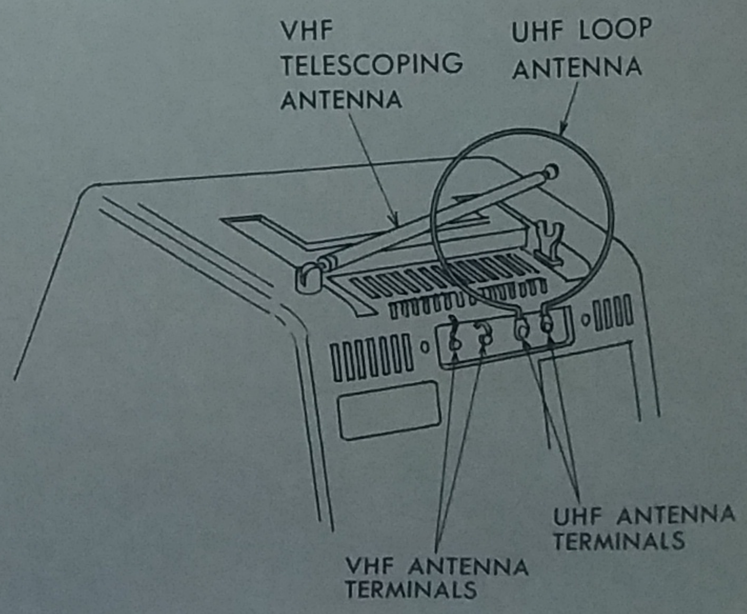
• VERTICAL INSTABILITY

When the picture is moving up or down on the screen, adjust VERTICAL HOLD.



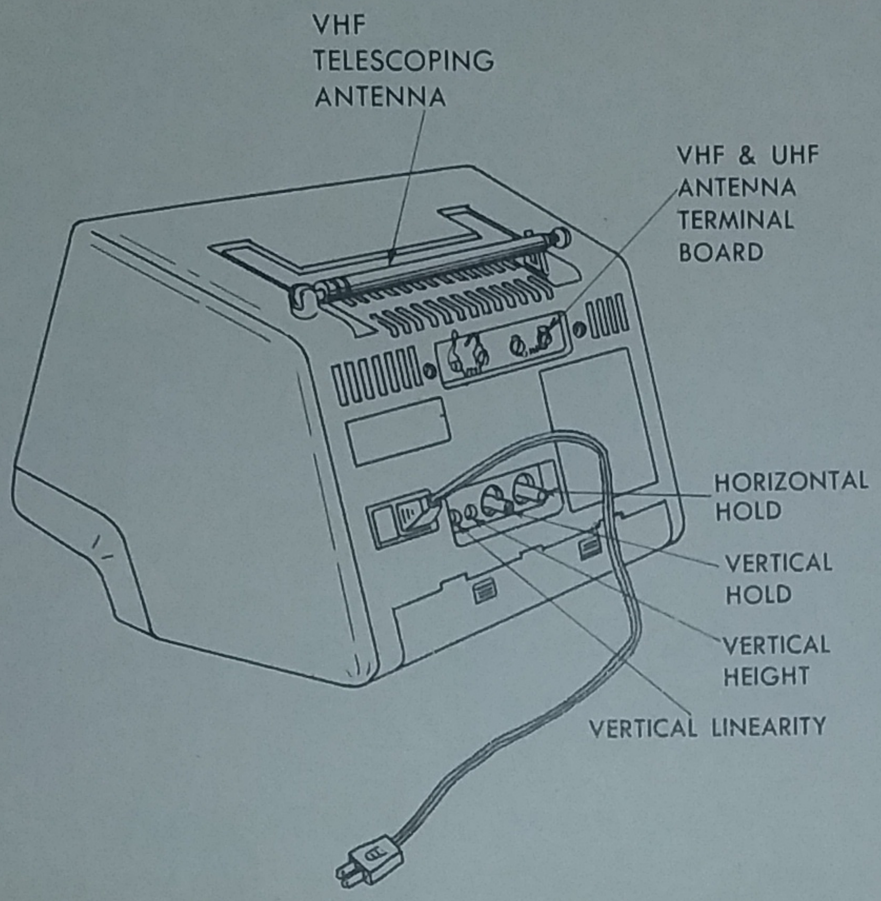
• HORIZONTAL INSTABILITY

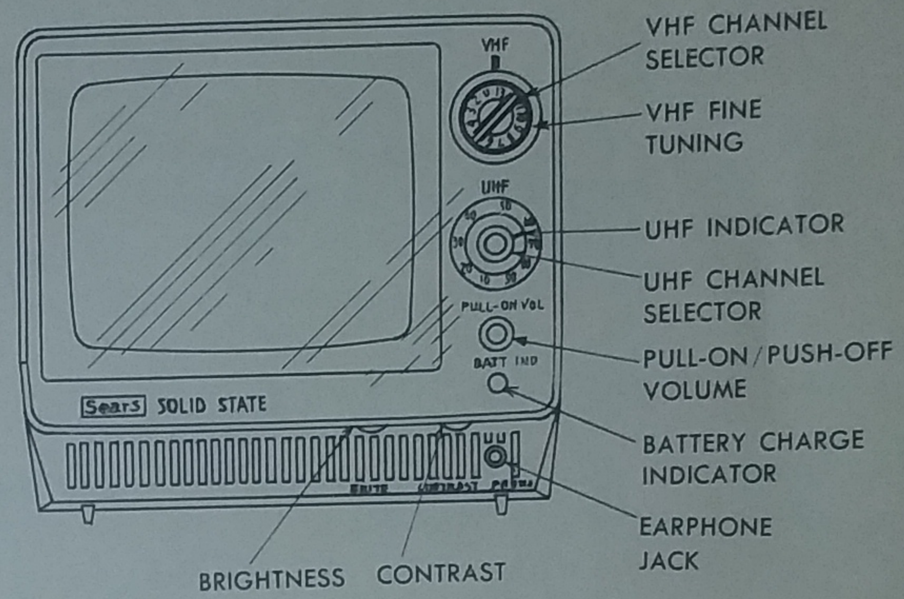
When the picture is slashed into horizontal or diagonal bars, adjust HORIZONTAL HOLD.



HELPFUL HINTS

- If sound and picture fail to appear, check and see the AC power plug is firmly seated in the wall outlet, or check the battery and its lead wire connection when the television receiver is powered by the battery.
- If picture and sound appear to be weak, check antenna connections at the rear of the receiver ; also for broken connections at the antenna.
- Poor picture quality may be due to the station having temporary transmission difficulty. Check this by selecting another channel.





CONTROLS

- PULL-ON/PUSH-OFF VOLUME Gently pull the PULL-ON/PUSH-OFF VOLUME knob to turn your receiver on. The receiver starts instantly. INSTANT START is a special feature that allows the picture and sound to come on in only a few seconds. This feature will add longer operating life to the picture tube and components by eliminating destructive initial surges.

  Adjust the VOLUME control to desired listening level.
- VHF CHANNEL SELECTOR Select the station to be viewed from channel 2 through channel 13. Rotate the selector to desired channel number. Adjust the VHF Fine Tuning.
- VHF FINE TUNING Tune in the station selected for the clearest sound and picture by turning the control slowly clockwise or counterclockwise until sound and picture are properly adjusted.
- UHF CHANNEL SELECTOR (Channels 14 through 83) Rotate VHF CHANNEL SELECTOR knob to the UHF position. Then rotate the UHF CHANNEL SELECTOR knob to the desired channel and adjust the knob slowly clockwise or counterclockwise to obtain the clearest sound and picture.

○ CONTRAST provides the proper contrast between the black and white elements of the picture.

○ BRIGHTNESS determines the brilliance of the picture and is adjusted in conjunction with the CONTRAST control.

○ VERTICAL HOLD stops any up or down movement of the picture. See VERTICAL INSTABILITY photo on page 2.

○ HORIZONTAL HOLD corrects any slanting of the picture. See HORIZONTAL INSTABILITY photo on page 2.

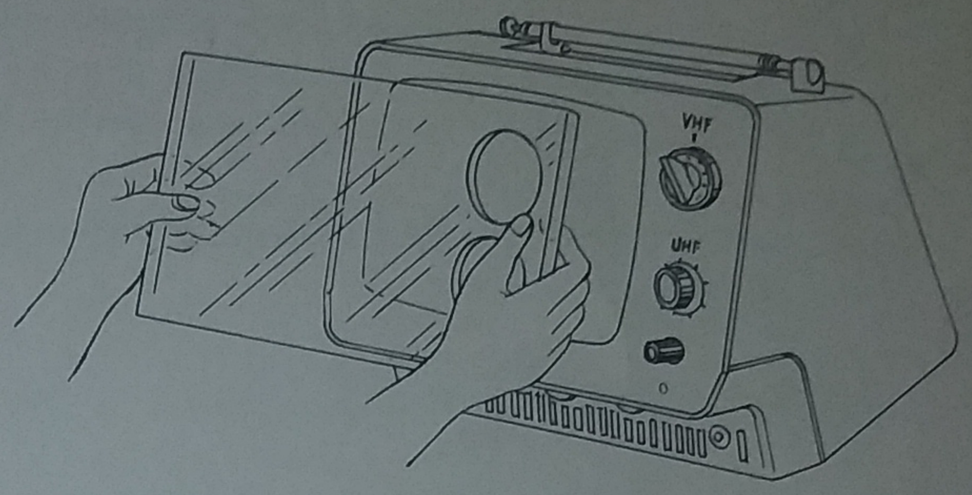
○ BATTERY CHARGE INDICATOR lamp turns on during the charging operation. When lamp goes out, the batteries have been recharged to approximately 70~80% of their fully charged condition.

○ EARPHONE JACK is located beneath the BATTERY CHARGE INDICATOR. See the illustration above. For private listening, insert an earphone (available from Sears) into the jack and adjust volume. The speaker will automatically be disconnected when the earphone is plugged into the earphone jack.

LIGHT DIFFUSER SCREEN

This receiver is equipped with a glare reducing screen for use when the receiver is operated in bright light. To mount light diffuser, insert the upper end of the diffuser on the upper front of the escutcheon, then engage the lower edge in the same manner.

To remove light diffuser, hold the lower end of light diffuser by the finger tips and pull out the diffuser to release it at the bottom end, then remove it completely.



MAINTENANCE

CAUTION: To prevent a possible shock hazard, remove the plug from the power outlet before cleaning the picture tube face. Dampen a clean cellulose sponge or chamois cloth with a solution of mild detergent and warm water to clean the picture tube face, light diffuser screen and bezel. Do not use an excessive amount of water. The picture tube face and light diffuser screen must be thoroughly dry before operating the receiver.

ENJOY TELEVISION ANYWHERE

Your Sears transistorized portable television receiver has been designed to operate anywhere an interference free television signal can be obtained—at home, on the beach, picnicking, boating, or in your car. A full line of optional accessories are available for use with your receiver.

MODEL No. 5065 BATTERY for use at seashore, picnics, etc., any place that AC power is not available.

MODEL No. 8995 CONNECTOR CORD for use in connecting receiver to cigarette lighter in car, boat or house-trailer, any unit containing a 12-volt DC power supply. (State laws vary, check for possible restrictions on operating TV receivers in moving vehicles.)

MODEL No. 6795 CAR ANTENNA overcomes shielding effects of steel car body—Clamps on window of car.

MODEL No. 6117 EARPHONE allows private listening without disturbing others.

Order any or all of the above accessory items today. We reserve the right to add or delete future availability of accessory items without incurring an obligation to prior purchasers.

WE SERVICE WHAT WE SELL....SEARS SERVICE FOLLOWS YOU WHEREVER YOU LIVE OR MOVE.

When you buy appliances from Sears you get an extra something that nobody else can give you—Sears Service.

Across town or across the country–wherever you live or move in the U. S. A. Sears Service follows you, providing trustworthy, competent service technicians using only Sears specified factory parts.

Your Sears Guarantee is backed by thousands of employes, an enormous amount of equipment, a vast inventory of repair parts, and modern information systems that compose the Sears service organization. In addition, the Sears Guarantee is your assurance that top quality materials and workmanship have gone into the construction of your appliance.

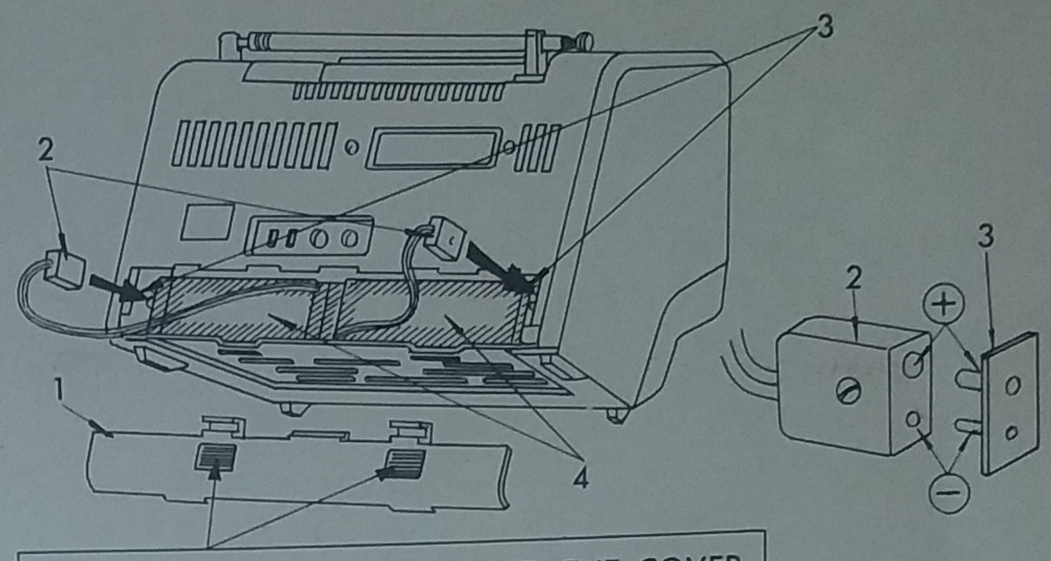
BATTERY OPERATION

Battery operation requires two batteries (Model No. 5065) to be installed.
The power cord must be unplugged from the TV receiver as well as the wall outlet for battery operation. Fully charged batteries will operate the receiver for approximately three hours. The need for recharging the batteries will be indicated when the picture shrinks in size and does not fill the screen. When recharging is needed, stop operating the receiver and recharge the batteries.

BATTERY INSTALLATION

1. Referring the illustration, pull the battery compartment cover **1** downward.
2. Install batteries **4** into TV with cords as illustrated.
3. Connect the battery cord connectors **2** to each plug **3** in the battery compartment.

   The plugs and connectors are polarized.
   Be sure the large pin matches the large connector hole.
4. Replace the battery compartment cover completely sliding up along the guides on both sides of the battery compartment.



TO REMOVE BATTERY COMPARTMENT COVER 1, PUT YOUR FINGERS ON THESE POINTS AND PUSH THE COVER THEN SLIDE DOWNWARD.

BATTERY PRE-CHARGE

The batteries are shipped in a fully charged condition, however, the batteries may become slightly discharged during shipping and storage. Before operating the receiver with new batteries, it is recommended that the batteries be charged for about two hours, following the instructions below.

BATTERY RECHARGING

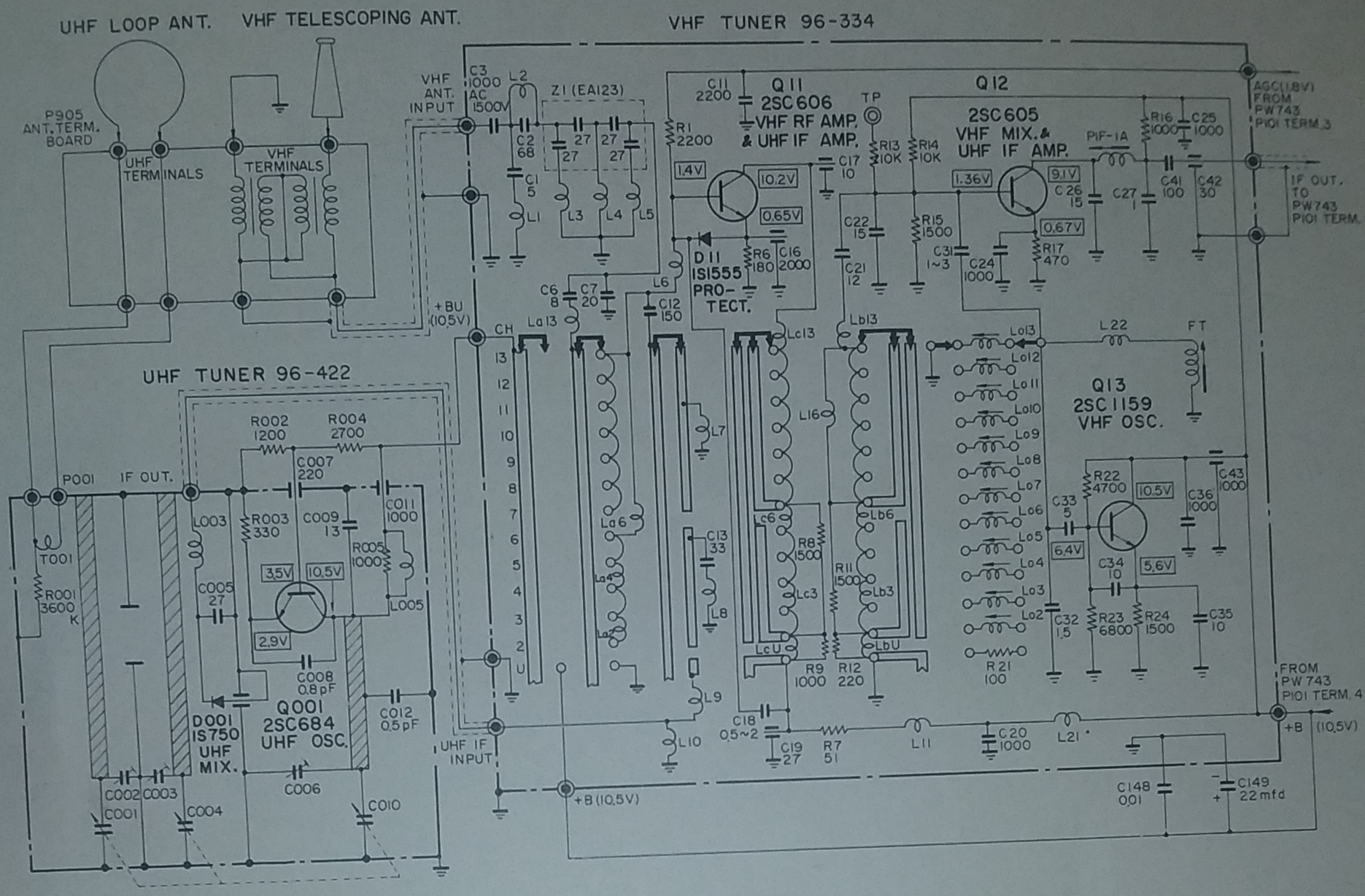
Battery Recharging is accomplished only while the receiver is turned off and plugged into an AC outlet. When the need for battery recharging is indicated, follow the steps below.

1. Check to be sure the PULL-ON/PUSH-OFF volume of the TV receiver is turned to OFF. The battery charging circuit operates only when the switch is in the OFF position.
2. Plug the AC power cord into the power receptacle on the back of the receiver and into a 120V, 60Hz AC outlet.
3. The battery charging indicator lamp located on the lower front of the escutcheon will light, indicating that the battery is charging. The charging indicator light will remain on until the battery reaches approximately 70~80% of its fully charged condition.

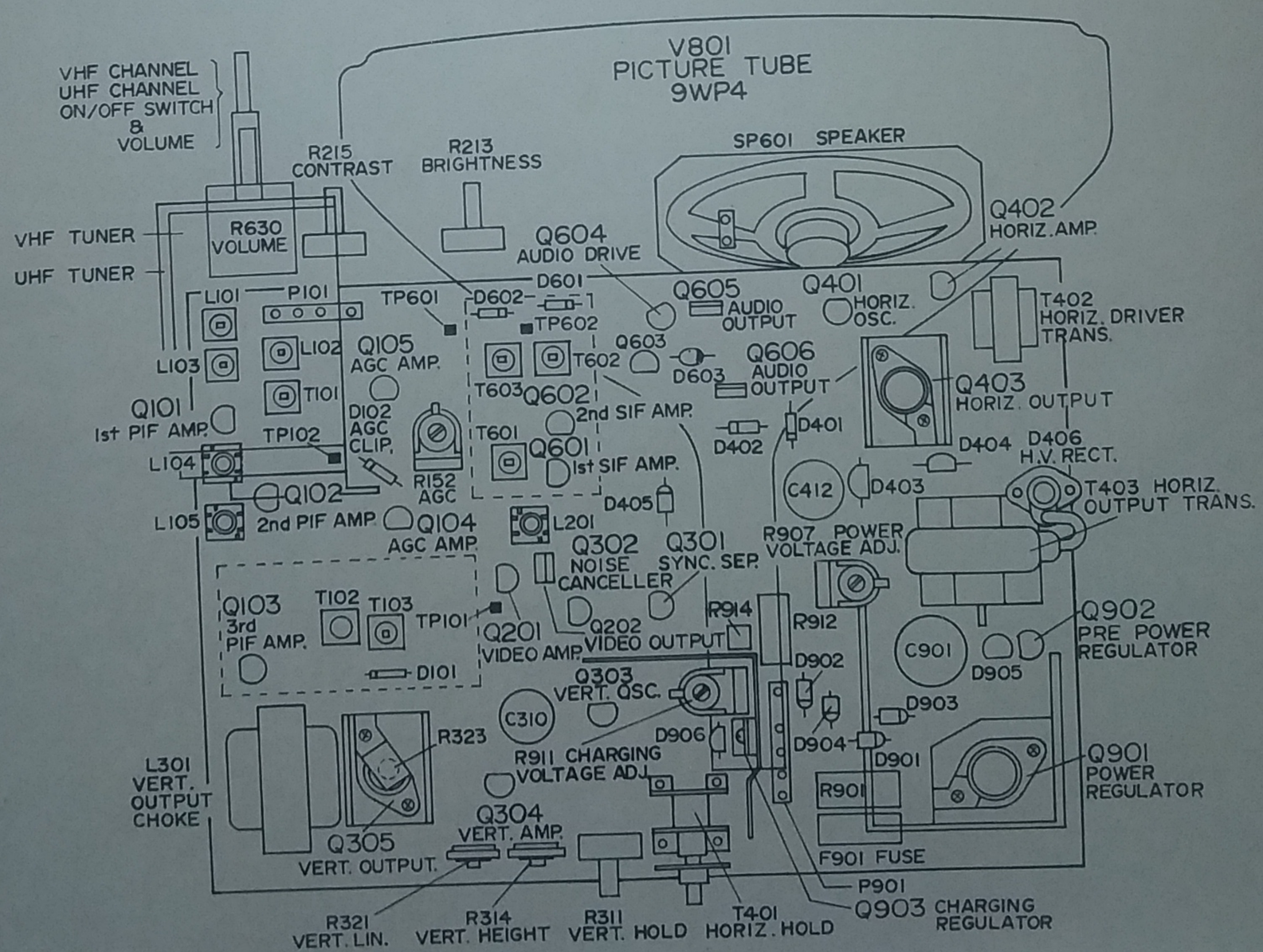
A complete recharge will take approximately 20 hours. It is not necessary to wait untill the battery is fully discharged before recharging it. The batteries may be recharged at any time by leaving the receiver plugged in while not in use so that the batteries will always be fully charged and ready for portable operation. The batteries cannot be overcharged since the charging circuit is designed to limit the charge to a safe level.

CAUTION : Do not charge the batteries in an excessively warm place nor dispose batteries in a fire. Excessive heat may cause the batteries to explode.

TUNER SCHEMATIC DIAGRAM

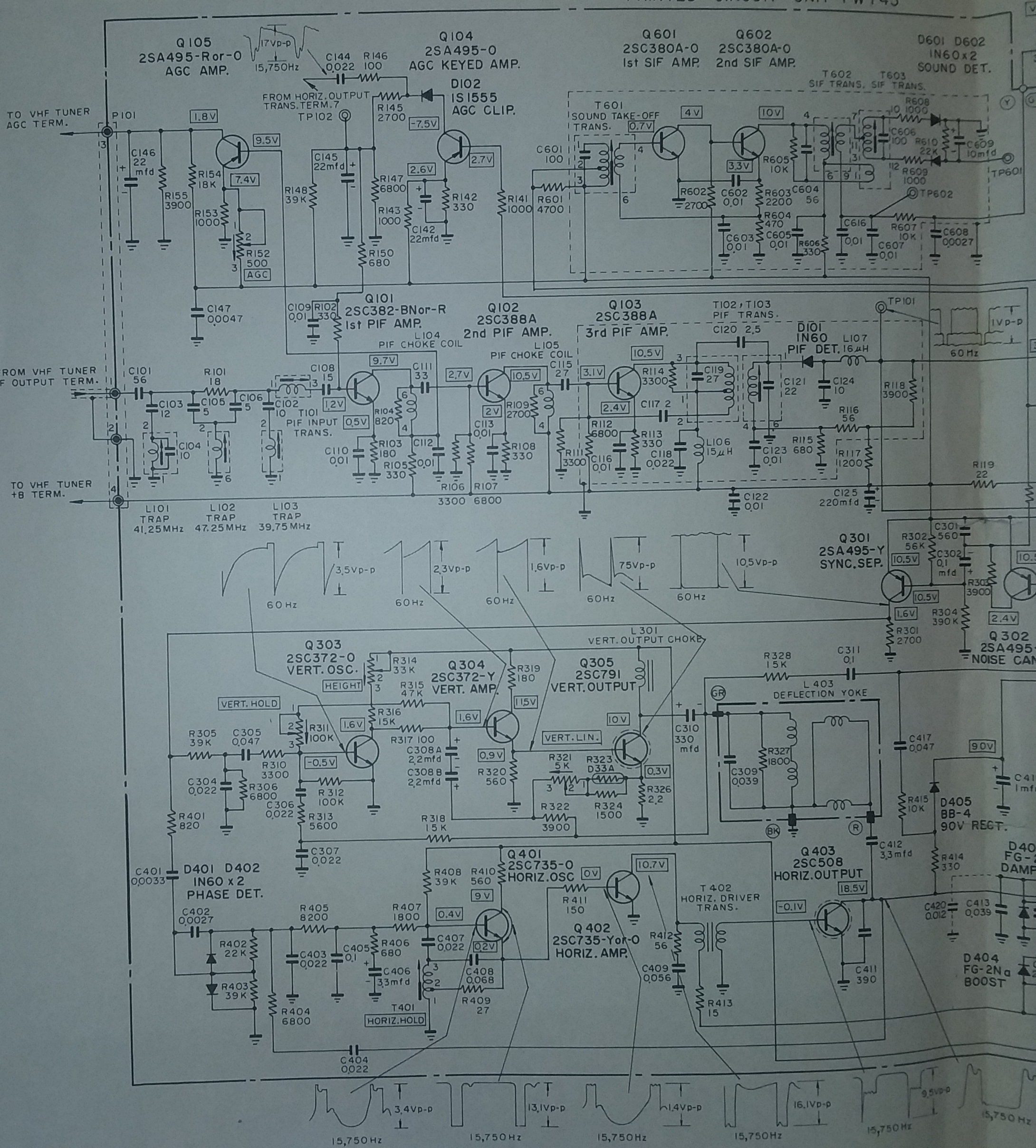


CHASSIS TOP VIEW

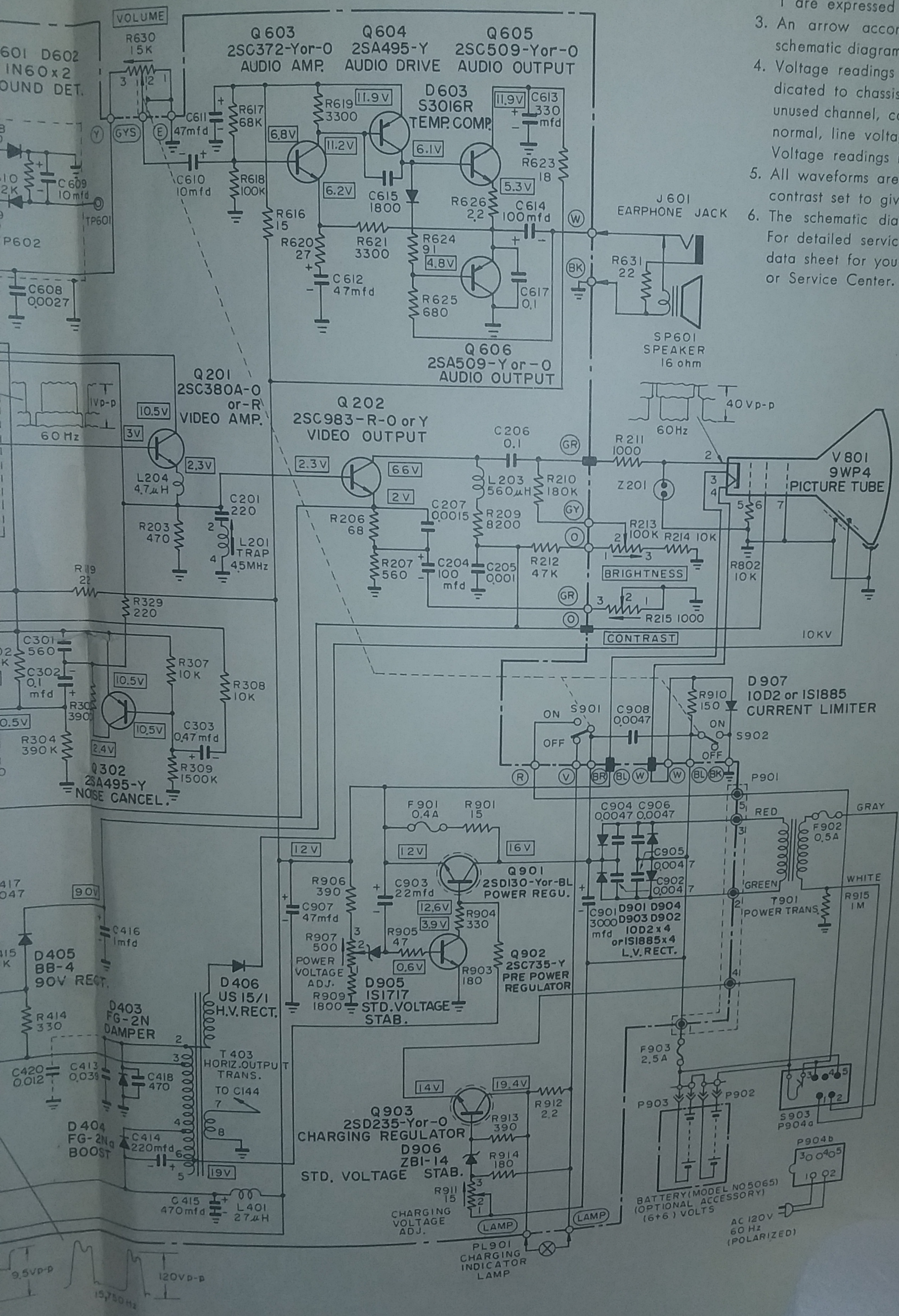


CHASSIS SCHEMATIC DIAGRAM

PRINTED CIRCUIT UNIT PW743



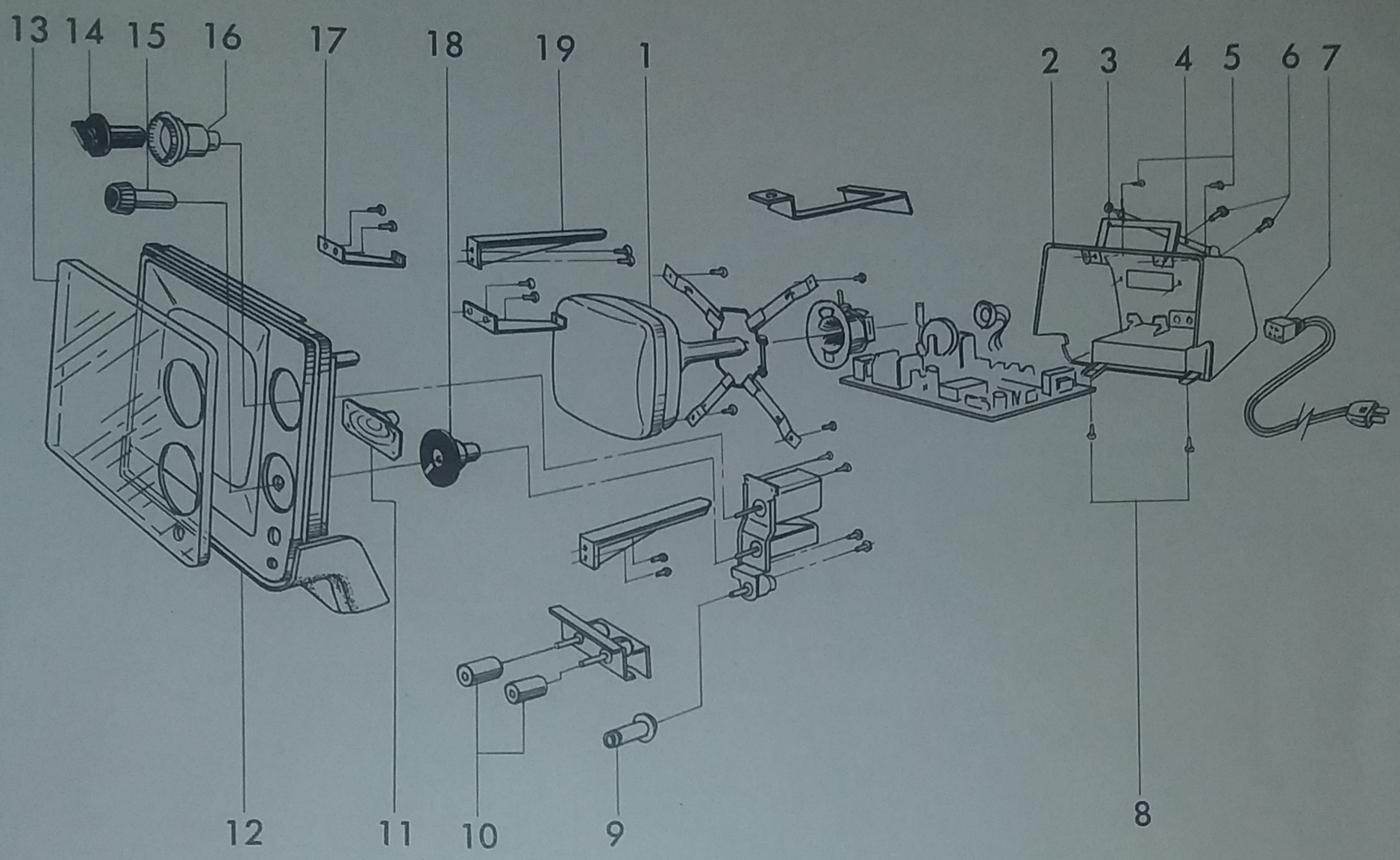
MODEL 562.50210300 SERIES



NOTES

1. Resistance is shown in ohms K=1,000, M=1,000,000.
2. Unless otherwise noted, all capacitor values less than 1 are expressed in mfd and the values more than 1 in pf.
3. An arrow accompanied by variable resistor in this schematic diagram indicates clockwise rotation direction.
4. Voltage readings are taken with "VTVM" from point indicated to chassis ground, under the tuner selector on unused channel, contrast at maximum, other controls at normal, line voltage 120 Volts.
   Voltage readings may vary ±20%.
5. All waveforms are measured with strong signal input, contrast set to give normal picture.
6. The schematic diagram shown is representative only. For detailed service informations, order the technical data sheet for your model from your local Sears Store or Service Center.

CABINET PARTS LIST



Key No.	Part No.	Description
1	———	Picture Tube, Type 9WP4
2	46-21381-3	Rear Cover Ass'y
	46-5689-3	Plate Nut, Rear Cover Mtg. (2 used)
	46-21380-3	Battery Cover Ass'y
	46-22471-3	Antenna Rest
	46-57232-3	Screw, (4x6mm), Bottom Plate Mtg. (4 used)
3	46-4954-3	Handle
	46-22203-3	Retainer, Handle Mtg. (2 used)
	46-57150-3	Tapping Screw, (3x10mm), Handle Retainer Mtg. (2used)
	46-4955-3	Pin, Handle Mtg. (2used)
	90-739	E Washer, Handle Mtg. (2 used)
4	46-8246-3	Antenna, Telescoping, VHF
5	46-57401-3	Tapping Screw, (4 x 10mm), Rear Cover Mtg. (2 used)
	46-7686-3	Antenna Terminal Board
6	46-57339-3	Screw, (3 x 8mm), Antenna Terminal Board Mtg. (2 used)
7	46-2386-3	Power Supply Cord (polarized)
8	46-5741-3	Tapping Screw, (4 x 12mm), Rear Cover Mtg. (2 used)
9	46-52472-3	Knob, PULL-ON Volume
10	46-52359-3	Knob, Contrast and Brightness (2 used)
11	46-33135-3	Speaker, 16 ohm, 2.5 x 4 inch
12	46-42216-3	Front Cabinet
	46-5746-3	Screw, (3 x 8mm), Batt. Charge Indicator Mtg.
13	46-4856-3	Light Diffuser
14	46-52474-3	Knob, VHF Channel Selector
15	46-52396-3	Knob, UHF Channel Selector
16	46-52473-3	Knob, VHF Fine Tuning
17	NSP	Retainer, Rear Cover Mtg. (2 used)
	46-57150-3	Tapping Screw, (3 x 10mm), Retainer Mtg. (4 used)
18	46-6744-3	UHF Indicator
19	NSP	Frame, Printed Circuit Board Holding (2 used)
	82-263-0	Antenna, UHF Loop
	Note	NSP : Not supplied as a service part.

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SEARS
8" PORTABLE
BLACK & WHITE TELEVISION

IF UNIT FAILS TO OPERATE PROPERLY

Reread the instructions in this manual.

Be sure AC plug makes good contact in AC power receptacle and also check batteries if operated on batteries.

If the unit still does not operate properly, take it to your nearest Sears Store or Catalog Sales Office. Our service departments are fully equipped to handle your service requirements.

If you do not have a convenient Sears Service department, write to the Sears branch from which you purchased the unit. Give the Model Number and explain the difficulty. We will advise you how to obtain service.

HOW TO ORDER REPLACEMENT PARTS

PARTS ORDERS MUST CONTAIN :

1. Part Number and description.
2. Model Number—found on back of cabinet.

WHERE TO ORDER :

Order from any Sears, Roebuck and Co. Retail or Catalog Order Store. Prices are available upon application.

Guarantee

We guarantee the Sears Portable Black & White Television to be free from defects in material or workmanship. Should a defect occur, return the set to us and we will :

1. During the first 90 days, repair the set, free of charge, if defective.
2. After 90 days and for the balance of the year, furnish any part necessary to remedy the defect, charging only for labor.

Service under your guarantee is available at any Sears Store or Service Center throughout the United States.

SEARS, ROEBUCK AND CO.

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